NOTICE TO EQUIPMENT BIDDERS FOR MIAMI COUNTY HIGHWAY DEPARTMENT FOR A NEW 3 YARD, 4-WHEEL DRIVE LOADER

Notice is hereby given, that the Board of County Commissioners of Miami County, Indiana, will receive BIDS for a New 3 Yard, 4-Wheel Drive Loader will be accepted up to the hour of 9:15 a.m. on May 16th 2016, requisitioned by the Miami County Highway Department, for equipment use maintenance of county roads and bridges. Bids should be submitted on Form #96, prescribed by the State Board of Accounts. Bids will be awarded on June 06th 2016 at 9:15 a.m.
Copies of the detailed specifications and instructions will be posted on the Miami County Website.

Trade-in allowance on a 1978 Case W24 Loader towards new equipment.

Compliance

New loader to be delivered on or by 60 days of ordered from winning bid. The County of Miami, Indiana has the right to reject any and all bids.

Bid specifications for 3 Yard, 4-Wheel Drive Loader

Comp	nance	
		Engine
yes	no	Six Cylinder, turbocharged, charge air cooled diesel engine and shall be designed and built by the manufacturer
yes	no	Engine shall be certified to EPA Final Tier 4/EU Stage IIIB
yes	no	Engine shall have a wet-sleeve cylinder liner design for improved cylinder cooling over dry sleeve and cast-in-bore design for improved cylinder and piston ring durability.
yes	no	Engine displacement shall be no less than 6.8 liters (414 cu. ln.)
yes	no	Engine net peak power shall be no less than 163 hp (121 kW) @1800 rpm
yes	no	Engine shall develop at least a 37% torque rise and should have at least 504 lb. ft. @ 1,100 rpm net peak torque
yes	no	Fuel system shall be high-pressure, common rail
yes	no	Daily check points shall be accessible from one side of the engine and shall be done from ground level
yes	no	Under-hood engine air cleaner shall be dry type, dual element with a restriction sensor and in-cab restriction warning light
yes	no	Access to engine will be open from both sides with side opening, full access service doors
yes	no	Engine shall have no less than 30-micron rated primary fuel filter with water separator
yes	no	Loader shall be equipped with a heavy-duty steel fuel tank guard
yes	no	Service interval for the engine oil and filter shall be 500 hours
yes	no	The unit shall have an auto-idle, auto-shutdown feature for the engine as standard equipment
yes	no	The electrical system shall be 24 volt with 100 amp alternator Cooling
yes	no	Unit shall have a proportionally controlled, hydraulically driven, 90 degree-swing-out fan, standard equipment
yes	no	The unit will have two-side access to all coolers
yes	no	Air intake shall be pre-screened (3 mm perforations) for each cooling component
yes	no	Cooling system shall be isolated from the engine compartment
yes	no	Unit shall have a coolant recovery tank provided
yes	no	Unit shall have a fan-guard
yes	no	Fluid levels should be easily checked by sight gauges or overflow tank
		Power Train
yes	no	Unit shall have a torque-converter, power shift transmission - 5 forward, 3 reverse gears
yes	no	The transmission shall be electronically controlled, adaptive, with load and speed dependent shift modulation

yes	no	Shift modes shall be manual, auto to 1st or 2nd, kick down or kick up/down.
yes	no	Service interval for the transmission oil filter shall be 2000 hours
yes	no	The transmission clutch calibration shall be performed from the cab monitor and shall have three clutch cutoff settings adjustable on the switch pad
yes	no	Unit shall have steering column or joystick mounted F-N-R and gear-select lever, kick-down button on hydraulic lever. Will also have quick shift feature that allows pushbutton gear changes, one gear at a time
yes	no	Sight gauge showing transmission fluid shall be at ground-level
yes	no	Transmission filter restriction shall be displayed in the cab Axles/Brakes
yes	no	The final drives shall be heavy-duty inboard planetary
yes	no	The loader shall have two brake pedals with an activation switch to allow left brake pedal to switch between a brake neutralizer or brake only function.
yes	no	The service brake shall be hydraulically actuated, inboard, sun shaft mounted, pressure oil cooled, self-adjusting, single disc and sealed from water, mud and dust contamination
yes	no	The parking brake shall be automatic, spring applied, hydraulically released, oil cooled, multi-disc and sealed from water, mud and dust contamination
yes	no	Rear axle shall not have less than 24 degree total oscillation, stop to stop, when equipped with 20.5R25 tires
yes	no	The dipstick port and housing fill shall be at the top of the axle
yes	no	The front axle shall be hydraulically actuated, disc clutch style, locking differential for maximum traction when required but with less tire wear than limited slip or no-spin differentials
yes	no	An optional rear axle disconnect shall be available for reduced fuel consumption and improved ride while driving the loader on-road between sites
yes	no	The loader shall have a standard hydraulic locking front with conventional rear and optional dual locking front and rear
yes	no	The loader shall have front axle with hydraulic locking differential
yes	no	The loader shall have front and rear axles with hydraulic locking differentials
		Hydraulic System
yes	no	Hydraulic filter shall be in the hydraulic tank with service interval of 4000 hours
yes	no no	The hydraulic fluid shall have a rated life of 4000 hours
•		The hydraulic system shall be pressure-compensating load-sensing for reduced fuel consumption and better fluid heating compared to open center hydraulic systems
yes	no	Hydraulic reservoir capacity should be no less than 32.5 gallons for extended hydraulic fluid intervals and cooler system temperature
yes	no	Unit will be provided with an automatic return to dig to level attachment
yes yes	no no	In cab adjustable automatic boom height kick out control Unit will be provided with in-cab adjustable automatic boom return-to-carry control
yes	no	Unit shall be equipped with either single-lever joystick or two-lever fingertip pilot-
,		operated controls
yes	no	A sight gauge will be provided for checking hydraulic reservoir fluid
yes	no	Hydraulic pump shall be variable-displacement, axial-piston pump: closed-center, pressure-compensating system
yes	no	Loader steering articulation angle shall be no less than 80 degrees, 40 degrees in each direction
		Electrical
yes	no	Two batteries shall be included, 24 volt, 950 CCA, with a rated reserve of no less than 25 amps for 190-min at 80F.
yes	no	The unit shall have a solid-state electrical power distribution system using circuit board technology and solid-state switches
yes	no	The unit shall have a keyless starting system with multiple security modes
yes	no	The unit shall be provided with a master electrical disconnect switch
yes	no	Cab will be pre-wired for a rotating beacon/strobe light
yes	no	The in-cab switch module shall be sealed to keep out dirt, dust and airborne debris

yes	no	Unit shall be equipped with driving lights with guards, turn signals and flashers, stop and tail lights. The tail lights shall be LED type mounted high up in the rear grille for protection from damage and better sight visibility and shall have a normal service life
		equal to the machine.
yes	no	Unit shall be equipped with analog display for: engine coolant temperature, transmission oil temperature, hydraulic oil temperature, and engine oil pressure
yes	no	Unit shall have digital readout for: engine rpm, odometer, transmission gear/direction indicator, speedometer, hour meter, fuel level and outside temperature
yes	no	Unit shall have operator warning lights for: check engine, engine oil pressure, engine air restriction, battery voltage, transmission filter restriction, brake pressure, hydraulic oil filter, transmission fault, hydraulic oil temperature
		Operator Station
yes	no	Unit shall be equipped with canopy with ROPS/FOPS protection, and be multiplane isolation mounted for noise/vibration reduction
yes	no	3" retractable seat belt shall be provided
yes	no	Steering wheel shall be tilt-able
yes	no	3-point contact at all times at the front and rear of the loader and around the roof-line
yes	no	The cab shall have continuous and unobstructed glass from roofline to floor for visibility in tight quarters.
yes	no	A seat backrest extension will be standard
yes	no	Cab shall have 2 cup holders, personal cooler holder/storage, compartment for
		operator's manual, rubber floor mat
		General Specifications
yes	no	Unit shall be equipped with 20.5 R 25, 1 Star L-3 tires with multi-piece rims
yes	no	Front tires shall be covered with fenders
yes	no	The counterweight shall be built-in
yes	no	Unit will be provided with a hitch with locking pin
yes	no	Unit shall have an articulation locking bar
yes	no	Unit shall have vandal protection with lockable engine enclosures, right counterweight
		storage, battery box, filler access for radiator/fuel/hydraulic/transmission
yes	no	The unit shall be provided with a loader boom service locking bar
yes	no	Loader shall have reinforced articulation joints with double tapered roller bearings
yes	no	Fuel tank capacity shall be no less than 86 gallons (325 L)
yes	no	Operating weight with standard equipment, pin-on wide GP 3 cy yd. (2.3 m³) bucket, 20.5R25 tires, ROPS cab, 175 lb. operator and full fuel tank shall be no less than 28,621 lb. (12 982 kg)
yes	no	Bucket breakout force shall be no less than 23,951 lbs. (10 864 kg) with manufacturer's standard z-bar with pin-on wide 3 cu yd. pin on bucket and standard configuration
yes	no	Ground clearance under the loader shall be no less than 15.7" (0.40 m)
yes	no	Loader with attachment coupler and bucket shall have height to hinge pin no less than
•		12'6" (3.81 m)
yes	no	Machine Full turn tipping load with standard Z-bar linkage and wide general purpose 3 cu yd. (2.3 m³) shall be at least 20,898 lb. (9 479 kg).
yes	no	Dump clearance at 45 degrees at full height shall be no less than 9 ft. 3 in (2.82 m) with wide General-Purpose with Bolt-on Edge bucket
yes	no	Reach at 45 degree dump, 7 ft. clearance shall be no less than 4 ft. 9 in (1.44 m) with wide General-Purpose with Bolt-on Edge bucket
yes	no	

Frames and Structures

yes	no	Machine front frame shall be of a 4-plate design of four vertical plates extending from boom pivot pins reaching to the front axle to distribute boom loads on the axle. The design is superior to the two-plate frames
yes	no	Loader bucket bell crank linkage shall be fabricated of high strength steel for increased durability and strength over castings.
yes	no	Machine shall be equipped with an exterior mounted, ground level storage compartment
		Optional configuration
yes	no	Unit has optional axle coolers
yes	no	5 year Subscription 2-way telematics system
yes	no	Transmission guards
yes	no	Bottom guards
yes	no	JRB Coupler
yes	no	JRB 3 yd. General Purpose bucket with bolt on cutting edge
yes	no	JRB 60" Forks
yes	no	LED lights
yes	no	Ride Control

Witness my hand and Seal this day 18, of April 2016.

Auditor Miami County,

Jane Lilley

Board of Commissioners Miami County, Peru, Indiana

Josh Francis

Larry West

Jerry Hamman